

0500/0420



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RAW SEQUENCE LISTING

DATE: 02/13/2002

PATENT APPLICATION: US/10/060,387

TIME: 19:47:59

Input Set : N:\Crf3\RULE60\10060387.txt

Output Set: N:\CRF3\02132002\J060387.raw

SEQUENCE LISTING

4 (1) GENERAL INFORMATION:

- 6 (i) APPLICANT: GREAVES, DAVID ROBERT
- 8 (ii) TITLE OF INVENTION: GENE EXPRESSION IN MONOCYTES AND MACROPHAGES
- 10 (iii) NUMBER OF SEQUENCES: 6
- 12 (iv) CORRESPONDENCE ADDRESS:

- 13 (A) ADDRESSEE: NIXON & VANDERHYE P.C.
- 14 (B) STREET: 1100 NORTH GLEBE ROAD
- 15 (C) CITY: ARLINGTON
- 16 (D) STATE: VIRGINIA
- 17 (E) COUNTRY: U.S.A.
- 18 (F) ZIP: 22201-4714

20 (v) COMPUTER READABLE FORM:

- 21 (A) MEDIUM TYPE: Floppy disk
- 22 (B) COMPUTER: IBM PC compatible
- 23 (C) OPERATING SYSTEM: PC-DOS/MS-DOS
- 24 (D) SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)

26 (vi) CURRENT APPLICATION DATA:

- C--> 27 (A) APPLICATION NUMBER: US/10/060,387
- C--> 28 (B) FILING DATE: 01-Feb-2002
- 44 (C) CLASSIFICATION:

41 (vii) PRIOR APPLICATION DATA:

- 32 (A) APPLICATION NUMBER: US 09/171,802
- 33 (B) FILING DATE: 01-NOV-2001
- 37 (A) APPLICATION NUMBER: PCT/GB97/01209
- 38 (B) FILING DATE: 02-MAY-1997
- 42 (A) APPLICATION NUMBER: GB 9609261.4
- 43 (B) FILING DATE: 02-MAY-1996

47 (viii) ATTORNEY/AGENT INFORMATION:

- 48 (A) NAME: SADOFF, B. J.
- 49 (B) REGISTRATION NUMBER: 36,663
- 50 (C) REFERENCE/DOCKET NUMBER: 1430-202

52 (ix) TELECOMMUNICATION INFORMATION:

- 53 (A) TELEPHONE: (703) 816-4000
- 54 (B) TELEFAX: (703) 816-4100

57 (2) INFORMATION FOR SEQ ID NO: 1:

59 (i) SEQUENCE CHARACTERISTICS:

- 60 (A) LENGTH: 2130 base pairs
- 61 (B) TYPE: nucleic acid
- 62 (C) STRANDEDNESS: double
- 63 (D) TOPOLOGY: linear

67 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

69 TGTCTCTGGAA CCCAGGTGCC TACCTGGTCT GCTGCATATT TGTTTTCTCT TCCAGCATGG

60

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71 AGATATGGNA CCAAAAGGAA CGAGTGCTCA GAGTTTGTAT TACCANTGAC CTGCTGGTGA      120
73 GTAGAGGGAA CTGATAGCAA AGGCAGAAGG GAGGATCCAA GGTGATTCCC TCTCCAAGGC      180
75 AAGTTCGGAA AGTAGCAGCT TGGAATAGAA TCTGGCATGC CTAAGGCCTT TGGGGAAGTG      240
77 GGATGCTTAT TTCCTCTGCC TTCCTTGGCT GCCACATGG ATGCCTAAGT GTCTTCCCTC      300
79 CGGGATAGAG TGTCTCCGT GCACATGCTG AAGAGTTGTC TTTCTTGACG TAGGCCAGAG      360
81 GCATTGATGT GCAGCAGGTT TCTTTAGTCA TCAACTATGA CCTTCCCACC AACAGGGAAA      420
83 ACTATATCCA CAGGTAAGCG TAGATCTGGA ACATTTCCAN ACCCTTTCAC ACCTGGCCCT      480
85 CCCTGGGCTT AAAGCTCCTG ATATTCCTCA TCCCCTTCCT TGTTTTCCAG AATCGGTCGA      540
87 GGTGGACGGT TTGGCCGTAA AGGTGTGGCT ATTAACATGG TGACAGAAGA AGACAAGAGG      600
89 AYTCTTCGAG ACATTGAGAC CTTCTACAAC ACCTCCATTG AGGAAATGCC CCTCAATGTT      660
91 GCTGACCTCA TCTGAGGGG TGTCCTGCCA CCCASCCCA GCCASGGCTC AAKYTCTGGG      720
93 GGCTGAGGAK CWCAGGAGG GGGGAGGAA GGGAGCCAAG GGATGGACAT CTTGTCTATT      780
95 TTTTTTCTTT GAATAAATGT CACTTTTTGA GGCAAAAGAA GGAACCGTGA ACATTTTAGA      840
97 CACCCTTTTC TTTGGGGTAG GCTCTTGCCC CAGGCGCCGG CTCTTCTCCC AAAAAAAAAA      900
99 AAAAAACACT AATCCATTTT CCTAACCTAG TAACCTCCAG ATCCCAGAGG CTCTCCTCAC      960
101 CTCAGCTGAG CTCCTTTGAA AGTGATTCAA GGGACTATGT CACTCAGCCT CATTTGCTGG      1020
103 ACCAAATCTG GAGGGAGAAC CCCTAAAACC CCTAAGTGAG GTTGCCAGG GGGTTGTCCC      1080
105 CAGGTGGGGG GAAGCAGGGG AGAGAAAATG GTAGCCATT TACATTGTT TTGTATAGTA      1140
107 TTTATTGATT CAGGAAACAA ACACAAAATT CTGAATAAAA TGAATTGGA ACTGCCTGTT      1200
109 TGGGCTTCTC ATTTCTTACC TCCCCTTCCC TCTCCACCT GMTACTGGGT GCATCTCTGC      1260
111 TCCCCCTTC CCCAGCAGAT GGTTACCTTT GGGCTGTTGC TTTCTTGTC CCATCTGAGT      1320
113 TCTCAGACGC TGGAAAGCCA TGTTCTCGGC TCTGTGAATG ACAATGCTGA CTGGAGTGCT      1380
115 GCCCCCTGT AAAGGGCTGG GTGTGGATGG TCACAAGCCC TTCACATGCY TCAGCCAAGA      1440
117 GGAAGTAGTA CAGGGGTCAG CCCAGAGGTC CAGGGGAAAG GAGTGGAAC CGATTTCCCC      1500
119 ACCAAGGAG GGGCCTGTAC CTCAGCTGTT CCCATAGCTA CTTGCCACAA CTGCCAAGCA      1560
121 AGTTTCGCTG AGTTTGACAC ATGGATCCCT GTGGATCAAC TGCCCTAGGA CTCCGTTTGC      1620
123 ACCCATGTGA CACTGTTGAC TTTGCCCTGA CGAAGCAGGG CCAACAGTCC CCTAACTTAA      1680
125 TTACAAAAAC TAATGACTAA GAGAGAGGTG GCTAGAGCTG AGGCCCCTGA GTCAGGCTGT      1740
127 GGGTGGGATC ATCTCCAGTA CAGGAAGTGA GACTTTCATT TCCTCCTTTC CAAGAGAGGG      1800
129 CTGAGGGAGC AGGGTTGAGC AACTGGTGCA GACAGCCTAG CTGGACTTTG GGTGAGGCGG      1860
131 TTCAGCCATG AGGCTGGCTG TGCTTTTCTC GGGGGCCCTG CTGGGGCTAC TGGCAGGTAA      1920
133 GGAGGAAGGA GGCTGAGGGG AGGGGGCCCC TGGGAGGGAG CCTGCCCTGG GTTGCTAACC      1980
135 ATCTCTCTC TGCCAAAAGC CCAGGGGACA GGAATGACT GTCCTCACA AAAATCAGCT      2040
137 ACTTTGCTGC CATCCTTAC GGTGACACCC ACGGTTACAG AGAGCACTGG AACAACCAGC      2100
139 CACAGGACTA CCAAGAGCCA CAAACCACC                                2130
141 (2) INFORMATION FOR SEQ ID NO: 2:
143     (i) SEQUENCE CHARACTERISTICS:
144         (A) LENGTH: 199 base pairs
145         (B) TYPE: nucleic acid
146         (C) STRANDEDNESS: double
147         (D) TOPOLOGY: linear
151     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
153 TTCCAAGAGA GGGCTGAGGG AGCAGGGTTG AGCAACTGGT GCAGACAGCC TAGCTGGACT      60
155 TTGGGTGAGG CGGTTAGCC AGGAATCCTG CTGGGGCTAC TGGCAGGTAA GGAGCCCAGG      120
157 AAGGAGGCTG AGGGGAGGGG GCCCTGGGA GGGAGCCTGC CCTGGGTTGC TAACCATCTC      180
159 CTCTCTGCCA AAAGCCAG                                199
161 (2) INFORMATION FOR SEQ ID NO: 3:
163     (i) SEQUENCE CHARACTERISTICS:
164         (A) LENGTH: 6959 base pairs

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165 (B) TYPE: nucleic acid
 166 (C) STRANDEDNESS: double
 167 (D) TOPOLOGY: linear
 171 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:

173	AATTCGGTTC	TCCAATCCCC	TGGGTCACCTT	TGCTCTTGCTG	CACGCTTTTCC	AGTCTTTTCAG	60
175	CGTAAGCCAG	AGTCATTCCC	AAGGATGCTG	GTTTCTCTCT	GGGGGAAGAG	CTGCTCTGTG	120
177	ATGGAGCCCA	TGCGTGTCAT	CTGAGCCTCT	GGCTTCCCTG	CCAGTGCAGC	CCTGGCAGTG	180
179	TCCTACTTCC	CAGGGCTGTT	GTCTGCCTGG	CGGGAAGGTC	CTGGGCAAAG	GATCAGTCTT	240
181	TGTACTCTGA	GAGCAGACTA	CTTGGCTCCT	CTCTGTTTTT	TATCAGCGAA	GTTGGATATA	300
183	TCTCTCCAC	ATTTCCCTAA	TCATATGCTA	TATATTGGCT	TTTTTTTTTCT	TCTCTAGCCC	360
185	CCAAATACAT	CAAGATGTTT	GTACTGGATG	AAGCTGACGA	AATGTTAAGC	CGTGGATTCA	420
187	AGGACCAGAT	CTATGACATA	TTCCAAAAGC	TCAACAGCAA	CACCCAGGTG	AGGGCAGTCT	480
189	TGCTTGAATA	GCTAATGATT	CTTGAAAAAT	AGTAAGTGCC	AGGGGAAACC	AAATACTGGA	540
191	TTCTTGAGCC	TTTTTATGCA	TCTGCTTCAG	TTTTAGGTGT	GGCTAGGGAA	GGGAGCAGGC	600
193	CTCAGGAAGG	AACCAGCACT	CTAAGACTGG	CCTTTTTTTC	CACTAGGTAG	TTTTGCTGTC	660
195	AGCCACAATG	CCTTCTGATG	TGCTTGAGGT	GACCAAGAAG	TTCATGAGGG	ACCCCATTCG	720
197	GATTCTTGTC	AAGAAGGAAG	AGTTGACCTT	GGAGGGTATC	CGCCAGTTCT	ACATCAACGT	780
199	GGAACGAGAG	GTGGGGCCCA	GTGCAGGAGG	CGGGCCTGGT	AGTGAGTTGT	TGGGTATAGC	840
201	CCCTGACTGA	TTTTTGTCCC	CCAACCTCCA	GGAGTGGAAG	CTGGACACAC	TATGTGACTT	900
203	GTATGAAACC	CTGACCATCA	CCCAGGCAGT	CATCTTCATC	AACACCCGGA	GGAAGGTGGA	960
205	CTGGCTCACC	GAGAAGATGC	ATGCTCGAGA	TTTCACTGTA	TCCGCCATGG	TGTGTTTGCC	1020
207	CGCTGCCAGC	CTGTGTGGG	TCTGCCCGTC	AGAAGTGTC	TACTTGAAGC	CAGGGTTCCT	1080
209	GGAACCCAGG	TGCCTACCTG	GTCTGCTGCA	TATTTGTTTT	CTCTTCCAGC	ATGGAGATAT	1140
211	GGACCAAAAG	GAACGAGACG	TGATTATGAG	GGAGTTTCGT	TCTGGCTCTA	GCAGAGTTTT	1200
213	GATTACCACT	CACCTGCTGG	TGAGTAGAGG	GAACTGATAG	CAAAGGCAGA	AGGGAGGATC	1260
215	CAAGGTGATT	CCCTCTCCAA	GGGGACATCA	GTGCCTCTCA	GGAAAGTAGC	AGCTTGGAAT	1320
217	AGAATCTGGC	ATGCCTAAGG	CCTTTGGGGA	ACTGGGATGC	TTATTTCTCT	TGCCTTCCTT	1380
219	GGCTGCCCAC	ATGGATGCCT	AAGTGTCTTC	CCTCCGGGAT	AGAGTGTCTT	CCGTGCACAT	1440
221	GCTGAAGAGT	TGTCTTTCTT	GACGTAGGCC	AGAGGCATTG	ATGTGCAGCA	GGTTTCTTTA	1500
223	GTCATCAACT	ATGACCTTCC	CACCAACAGG	GAAAACATA	TCCACAGGTA	AGCGTAGATC	1560
225	TGGAACAYTC	CCNTACCCNT	TCACACCTGG	CCCTCCCTGG	GCTTAAAGCT	CCTGATATTC	1620
227	CTCATCCCCCT	TCCTTGTTTT	CCAGAATCGG	TCGAGGTGGA	CGGTTTGGCC	GTAAAGGTGT	1680
229	GGCTATTAAC	ATGGTGACAG	AAGAAGACAA	GAGGANTCTT	CGAGACATTG	AGACCTTCTA	1740
231	CAACACCTCC	ATTGAGGAAA	TGCCCCCTCA	TGTTGCTGAC	CTCATCTGAG	GGGCTGTCCT	1800
233	GCCACCCASC	CCCAGCCAGG	GCTCAAAGTC	TGGGGGCTGA	GGACCTGCAG	GAGGGGGGAG	1860
235	GGAAGGGAGC	CAAGGGATGG	ACATCTTGTC	ATTTTTTTTT	CTTTGAATAA	ATGTCACTTT	1920
237	TTGAGGCAAA	AGAAGGAACC	GTGAACATTT	TAGACACCTT	TTTCTTTGGG	GTAGGCTCTT	1980
239	GCCCCAGGCG	CCGGCTCTTC	TCCCCAAAAA	AAAAAAAAAA	CACATAATCCA	TTTCCCTAAC	2040
241	CTAGTAACCT	CCAGATCCCA	GAGGCTCTCC	TCACCTCAGC	TGAGCTCCTT	TGAAAGTGAT	2100
243	TCAAGGGACT	ATGTCACTCA	GCCTCATTTG	CTGGACCAAA	TCTGGAGGGA	GAACCCCTAA	2160
245	AACCCCTAAG	TGAGGTTGCC	CAGGGGGTTG	TCCCCAGGTG	GGGGGAAGCA	GGGGAGAGAA	2220
247	AATGGTAGCC	ATTTTACAT	TGTTTTGTAT	AGTATTTAT	GATTTCAGGA	ACAAACACAA	2280
249	AATTCCTGAAT	AAAATGACTT	GGAAACTGCC	TGTTTGGGCT	TCTCATTTCT	TACCTCCCTT	2340
251	TCCCTCTCCC	ACCTGCTACT	GGGTGCATCT	CTGCTCCCCC	CTTCCCCAGC	AGATGGTTAC	2400
253	CTTTGGGCTG	TTGCTTTCTT	GTCACCATCT	GAGTTCTCAG	ACGCTGGAAA	GCCATGTTCT	2460
255	CGGCTCTGTG	AATGACAATG	CTGACTGGAG	TGCTGCCCTT	CTGTAAAGGG	CTGGGTGTGG	2520
257	ATGGTCACAA	GCCCCTCACA	TGCCTCAGCC	AAGAGGAAGT	AGTACAGGGG	TCAGCCCAGA	2580
259	GGTCCAGGGG	AAAGGAGTGG	AAACCGATTT	CCCCACCAAG	GGAGGGGCCT	GTACCTCAGC	2640
261	TGTTCCCAT	GCTACTTGCC	ACAACCTGCC	AGCAAGTTTC	GCTGAGTTTG	ACACATGGAT	2700

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263	CCCTGTGGAT	CAACTGCCCT	AGGACTCCGT	TTGCACCCAT	GTGACACTGT	TGACTTTGCC	2760
265	CTGACGAAGC	AGGGCCAACA	GTCCCCTAAC	TTAATTACAA	AAACTAATGA	CTAAGAGAGA	2820
267	GGTGGCTAGA	GCTGAGGCCC	CTGAGTCAGG	CTGTGGGTGG	GATCATCTCC	AGTACAGGAA	2880
269	GTGAGACTTT	CATTTCCCTC	TTTCCAAGAG	AGGGCTGAGG	GAGCAGGGTT	GAGCAACTGG	2940
271	TGCAGACAGC	CTAGCTGGAC	TTTGGGTGAG	GCGGTTTCAGC	CATGAGGCTG	GCTGTGCTTT	3000
273	TCTCGGGGGC	CCTGCTGGGG	CTACTGGCAG	GTAAGGAGGA	AGGAGGCTGA	GGGGAGGGGG	3060
275	CCCCTGGGAG	GGAGCCTGCC	CTGGGTGCT	AACCATCTCC	TCTCTGCCAA	AAGCCCAGGG	3120
277	GACAGGGAAT	GACTGTCCCTC	ACAAAAAATC	AGCTACTTTG	CTGCCATCCT	TCACGGTGAC	3180
279	ACCCACGGTT	ACAGAGAGCA	CTGGAACAAC	CAGCCACAGG	ACTACCAAGA	GCCACAAAAC	3240
281	CACCACTCAC	AGGACAACCA	CCACAGGCAC	CACCAGCCAC	GGACCCACGA	CTGCCACTCA	3300
283	CAACCCACC	ACCACGACC	ATGGAACGT	CACAGTTCAT	CCAACAAGCA	ATAGCACTGC	3360
285	CACCAGCCAG	GGACCCCTCAA	CTGCCACTCA	CAGTCCCTGCC	ACCACTAGTC	ATGGAAATGC	3420
287	CACGGTTCAT	CCAACAAGCA	ACAGCACTGC	CACCAGCCCA	GGATTACCA	GTTCTGCCCA	3480
289	CCCAGAACCA	CCTCCACCCT	CTCCGAGTCC	TAGCCCAACC	TCCAAGGAGA	CCATTGGAGA	3540
291	CTACACGTGG	ACCAATGGTT	CCCAGCCCTG	TGTCCACCTC	CAAGCCGAGA	TTCAGATTCTG	3600
293	AGTCATGTAC	ACAACCCAGG	GTGGAGGAGA	GGTAAAGCTA	AAACTGGGGG	ATGAGAGGGG	3660
295	AGGGAGGCAG	GACTGGTTAT	AGGCTCAGAG	GGAAGAAGGA	AGAGGGGACA	GGNAACCTTG	3720
297	GCCGGCATCG	CATGCAGTCT	TGTGACCTTC	CAGTCTTTAA	CTTCCGCAGG	GCTGGGGTAT	3780
299	CTCTGTNCTG	ANCCCCAACA	GAACCAAGGT	CCAGGGAAGC	TGTGGGGGTG	CCCATCCCCA	3840
301	CCTGCTTCTC	TCATTCCCCCT	ATGGACACCT	CAGCTTTTGA	TTCATGCAGG	TATAGCCATG	3900
303	ACCTCAGTCT	CACCCCTCAC	TCAGCCTCCC	GGCGCCCCTC	CCCTCCCAAT	CCCACACGCT	3960
305	ACTCCTTCCT	CTGTGGAGAG	GGATACCACC	TGCGCCTTCC	TCTTCGCCCC	ACAGGACCTC	4020
307	CAGCAGAAGG	TTGTCTACCT	GAGCTACATG	GCGGTGGAGT	ACAATGTGTC	CTTCCCCCAC	4080
309	GCAGCACGTA	AGTAACCTCC	TTCCCTTTCT	CATTGCTACC	ACTAGACGCC	AGGGTTCCTG	4140
311	AAAGACTAA	GCTGGGGCCA	GGGAGGTGGA	TAGGATCTGA	CCCTTCCTCA	CTCCTCCAGA	4200
313	GTGGACATTC	TCGGCTCAGA	ATGCATCCCT	TCCAGATCTC	CAAGCACCCC	TGGGGCAGAG	4260
315	CTTCAGTTGC	AGCAACTCGA	GCATCATTCT	TTCACCAGCT	GTCCACCTCG	ACCTGCTCTC	4320
317	CCTGAGGCTC	CAGGCTGCTC	AGCTGCCCCA	CACAGGGGTC	TTTGGGCAAA	GTAAGACCTA	4380
319	CCTACTCCTT	CCCTCCTAGA	ATCCTCCAC	TGCACTGAAA	ACCCCTTCCC	CAGGCCATA	4440
321	AGCCACTCAT	CTCTCTTCTT	AACCCCCAA	ATCTCGCTCT	CCCAGCTTGT	CATGGCTACA	4500
323	GGGCAGCTTT	CTTTCATCC	TCTACAAGAC	TCTGCCAGTT	TCCCCCTTTT	ATCACTGCTG	4560
325	AGTCACTGCG	GTGAGCTCCT	CACCAATCTC	CTACTCCCCA	GCATCCCCCC	ATTCCCTCCT	4620
327	CCCACCTTTA	TCCCAACCAG	CACGTCACTG	CAAATACCTA	CCTGCCCTAT	CCTTCCGCCA	4680
329	GGTTTCTCCT	GCCCCAGTGA	CCGGTCCATC	TTGCTGCCTC	TCATCATCGG	CCTGATCCTT	4740
331	CTTGGCCTCC	TCGCCCTGGT	GCTTATTGCT	TTCTGCATCA	TCCGGAGACG	CCCATCCGCC	4800
333	TACCAGGCCC	TCTGAGCATT	TGCTTCAAAC	CCCAGGGCAC	TGAGGGGGTT	GGGGTGTGGT	4860
335	GGGGGGGTAC	CCTTATTTCC	TCGACACGCA	ACTGGCTCAA	AGACAATGTT	ATTTTCCTTC	4920
337	CCTTCTTGA	AGAACAAAAA	GAAAGCCGGG	CATGACGGCT	CATGCCTGTA	ATCCCAGCAC	4980
339	TTTGGGAGGC	TGAGGCAGGT	GGATCACTGG	AGGTCAGGAG	TTTGAGACCA	GCCTGGCCAA	5040
341	CATGGTGAAA	CCCTGTCTCT	ACTAAAAATA	CAATTAGCCA	GGTGTGGCGG	CGTAATCCCA	5100
343	GCTGGCCTGT	AATCCCAGCT	ACTTGGGAGG	CTGAGGCAGA	ACTGCTTGAA	CCCAGGAGGT	5160
345	GGAGGTTGCA	GTGAGCCGTC	ATCGCGCCAC	TGAGCCAAGA	GTCGCGCCAC	TGCACTCCAG	5220
347	CCTGGGCGAC	AGAGCCAGAC	TGTCTCAAAT	AAATAAATAT	GAGATAATGC	AGTCGGGAGA	5280
349	AGGGAGGGAG	AGAATTTTAT	TAAATGTGAC	GAAGTGGCCC	CCCCCCCCCC	CCCCAGCAGG	5340
351	AGAGCAGCAA	AATTTATGCA	AATCTTTGAC	GGGGTTTTCC	TTGTCTTGCC	AGGATTAAAA	5400
353	GCCATGAGTT	TCTTGTCACA	TGCCTTTCTA	TGCCTTCCAT	GGCTGGGTCT	CAGGGAGCCG	5460
355	GAAGCAGCTG	CTGAGGAGGG	ATGAAAATGT	CAGTGTGTGA	CGATGCCTCA	TGGGTTTACC	5520
357	CCCCAAAGCC	TGGCACAGCT	GGTGTGGGGT	CTGCCGTGCC	TCCCTTCTTT	CCTCCTCTTG	5580
359	GGGCCACTGG	CTGCTCCAGT	TCCCCATCCG	TGGCAAGCCG	GTAGAGCCAT	TCATCCCCCG	5640

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361 AGCCTTCTTC CTGACCCCTCG TACAGTTTCA AATGCAGCAG ACAGCCAAAG CAATGAGTGG 5700
363 GGGGCTGTGG AACTTCATTC CCAAAGGCAG CGCCAGTGGC TCCTGAGCAA TGAGAATGTC 5760
365 CTGTCTGTGC CACCATATTC AAGGCCAGCA GAAGAGCCCG ATTAAACCCT CGCAGCGACC 5820
367 TGGCATGCTC CTATCCCACC TGCAAGGGGT TGAATCAAGA AGGAGCAGTG GGTACTCTGA 5880
369 CCTCCACTGG GGGCTCCTGG GAACAGCATG CCCCCACAC GGGGCCACCT GCCAAGCCTA 5940
371 ACTTCATGCC CCCAGTACTT GAGATGAGGA GTGTCACTCT CAGGACAGCC AAGGTCCAGA 6000
373 TTCTAGAAAG GACCTCCCAG ATGGCCACAG CCTGCACCAG CAGTGAGCGC CAGTCCCACC 6060
375 CATTACAGCT GGCTACGGCG CAATCCCTGG GAGCCAGGAT GAGCAGCACC CCCAGCCGT 6120
377 AGGAGCCCCA GGAGGCTTCC GGCTTCCAAG GCCMAGAGAC TGCCCCACAA GGSAGCCCTC 6180
379 ACCTGGCAGG GCCCAGCAAG CCCCACTCT GCCTGCAGAC ATCCGTGTGA CCTTGTAGAC 6240
381 TTTGGAGGGG GGCCCCAAAG GGCTGATCCA CAGCGGAATG ACGCACGGGT GGGCACCCTG 6300
383 GGTGGGCGTC CCGGCGGTCG GTAACGAAGC ACAACGCCCC CACCAGGTAG TCCAAGGTGC 6360
385 CCTTTTCCCC AAGCAGCGCT GMAGGKTCMA TCTGGCCTCG CCGAAGTCTC TGCCCAGCAC 6420
387 GTGGTGCCCC TCGGGCCAGC GGGGAGGGGG CGAATCCCGG GACTGCTCGC CAGGCCTCGG 6480
389 CTCCCCGGAG ACTCTTGGGG GTSTGGGCCC CAAGGGTGAT TCAGGTGCTG CCCTTKCCCC 6540
391 GACCTGGGAT GCTTCCCCCA CGTCTCTTT TGTTTTAATG TCCCGGGCCC AGCAGTTGCC 6600
393 GCGCAATTTC ATGYTCCGAG GCCTGAGCCA ACCGGAGGCG AGACAAGCAC AGGGCCCTGC 6660
395 GCGCAACCCG GCACCTAAGG AGGCCTGCCC GGTGCAGACT CTCTGTCTCC CACCGGCGCC 6720
397 CTTCCCTCTA GAGACGCTGA GAGAACGGGA GCTAGTAGCG CCCCCACCCA ACGCCACCTC 6780
399 GGAGACTCCG GCTCCTTCTC TCTCAACTTC GAACAATACA AAGTGTGCTA GGAGAAGACA 6840
401 AGATGGCGCC CAGCAGGAGG AGCGGAGAAA GGCAGGGGTG TAAATCTGGC TTCCAAACTG 6900
403 GAAGCGTCAA CAAAGGCGTG GGAGGTCTAA CCGCGCAGGC GTGCAGCTTC GGCAAGCTT 6959

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405 (2) INFORMATION FOR SEQ ID NO: 4:

407 (i) SEQUENCE CHARACTERISTICS:

408 (A) LENGTH: 1738 base pairs

409 (B) TYPE: nucleic acid

410 (C) STRANDEDNESS: double

411 (D) TOPOLOGY: linear

415 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:

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417 CTAGCTGGTC TGAGCATCTC TGCCATGCGG CTCCCTGTGT GTCTGATCTT GCTAGGACCG 60
419 CTTATAGGTA AGGAGAAATG GGAGGTGGGG GAGGGAGGGC TCATGGGCAG GAGCCTGCAC 120
421 CTGGGTGGCC AACCAATCTC TTAAGTAAAG CCCAAGGAAC AGAGGAAGAC TGTCTTCACA 180
423 AAAAGGCCGT TACTCTCCTG CCATCCTTCA CGATGACACC TACAGCCACA GAAAGCACAG 240
425 CCAGCCCTAC GACCAGCCAC AGGCCACCA CCACCAGTCA CGGAAATGTC ACAGTTCACA 300
427 CCAGCTCCGG ACCCACAACT GTCATCATA ACCCTGCCAC CACCACCAGT CATGGGAATG 360
429 CCACAATTTT TCATGCCACA GTTCTCCCA CCACAAATGG CACTGCTACT AGTCCAAGAT 420
431 CCTCCACTGT TGGCCCTCAC CCTGGACCAC CTCCACCCTC GCCTAGTCCA AGGTCCAAGG 480
433 GGGCTCTTGG GAACTACACG TGGGCCAACG GCTCCCATCC TTGTGTTTCA CTCCAAGCCC 540
435 AAATTCAAAT CCGAATCCTA TACCAATTC AGGGTGGAAG AAAGGTAAAG CTAAAGTGGG 600
437 GCTTAAAGAG GGCAAGAGGC AAGTCCTGGG CTCGTTCAGC AGGGAAGAGG AAGAGAAGAG 660
439 GAGGGGATAA ACTGGATGGA GCATTCTTGT GATTTTCAGC CCACCATTGC ACTTCTACAG 720
441 GCTTGGGGCA TATCTGTTTT GAATCCCAAC AAAACCAAGG TCCAGGGAGG TTGTGACGGT 780
443 ACCCATCCCC ACCTGTCTCT CTCATTTCTT TATGGACAGC TTACCTTTGG ATTCAAACAG 840
445 GTATACAGCT TGAGTTTGTG TCTATCTCTT ATTCTTCCAT ATCCCATACC TGTACCCCGG 900
447 GAGCCTCTGT TCTTGCTCTG TGGACATGGA TGCTCTGTG CCTGATGCCT TGAGTCTTTY 960
449 TGTTACCTT AAGGACCTAC ATCAGAGCCC GAGTACAGTC TACCTGGACT ACATGGCGGT 1020
451 GGAATACAAT GTGTCTTCC CACAGGCAGC ACGTGAGTAA TCTCTTCTCC TTACCACACT 1080
453 AAAAGTCTAG GCTGGGCGTG CTGGGCTGGT GGGGAGGACT CAGGAGTCAG GACTGGATTT 1140
455 GACTCTTAAT TACTAATTAC TGCAGAGTGG ACATTCATGG CGCAGAATTC ATCTCTTCGA 1200

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VERIFICATION SUMMARY

PATENT APPLICATION: US/10/060,387

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Output Set: N:\CRF3\02132002\J060387.raw

L:27 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]

L:28 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]